

1 (10) ABSTRACT OF THE DISCLOSURE

2 A scan-print device is hand-held and is scanned over the surface of a paper-like
3 rewritable sheet. The sheet has a colorant responsive to a linear array of
4 pixel-sized electric fields written over the sheet by the scan-print device during
5 each scan, producing a bistable pixel (e.g., black or white) in response to field
6 polarity. The bi-stable, rewritable colorant is highly energy efficient, requiring
7 energy only to change an image, not to hold or illuminate it. Once a series of
scans sufficient to cover the entire sheet has been made, the printed image
appears as if printed conventionally. The print remains stable until reprinted or
intentionally erased. Combined with hand-held scanner-copier technology, a
portable copier is also implemented.